

Applicant: Chio WONG  
Appl. No. 10/051,362

*Remarks*

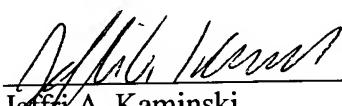
The above amendments have been made to place the application in better form for examination. Upon entry of the foregoing amendment, claims 1-16 are pending in the application, with claims 1 and 5 being the independent claims. New claims 11-16 are sought to be added. These changes are believed to introduce no new matter, and their entry is respectfully requested.

Attached hereto is a substitute specification, and a marked-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned "Version with markings to show changes made."

Applicant hereby requests an action on the merits at the earliest opportunity.

Respectfully submitted,

Date: May 3, 2002

  
Jeffri A. Kaminski  
Registration No. 42,709  
VENABLE  
P.O. Box 34385  
Washington, D.C. 20043-9998  
Telephone: (202) 962-4800  
Telefax: (202) 962-8300

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**Version with markings to show changes made**

1. (Amended) A crystallized bottleneck of a polyester beer bottle, wherein the crystallized bottleneck ~~is-has~~ no machined a-screw thread and wherein a crystallized length of the bottleneck portion is in a range of 0.5-35 mm.

2. (Amended) A crystallized bottleneck of a polyester beer bottle according to claim 1, wherein said crystallized length of the bottleneck portion is in a range of 0.5-10 mm.

3. (Amended) A crystallized bottleneck of a polyester beer bottle according to claim 1-~~or~~2, wherein said bottleneck is made with a polyethylene terephthalate material.

4. (Amended) A crystallized bottleneck of polyester beer bottle according to claim 1-~~or~~2, wherein a flanged ring is provided to said crystallized bottleneck of the polyester beer bottle, and wherein a flanged ring has a plane bottom surface at a proper position spacing from ~~the-a~~ top flange of the said flanged ring; the upper surface of the flanged ring is an acclivitous plane; the acclivitous plane forms an angle of 45° ~~on~~ from the vertical direction and converges to the outer surface of the bottleneck portion.

5. (Amended) A method for manufacturing a crystallized bottleneck of a polyester beer bottle according to claim 1, comprising the steps as follows:  
~~according to claim 1,~~

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forming a blank of a bottle made of polyester material is formed through drying;  
ejecting the polyester material and shaping itsaid ejected polyester material through cooling,  
thereby forming an uncryallized blank of a bottle;  
placing then the uncryallized blank of the bottle is placed for 24-72 hours in an air-  
conditioned environment;  
preheating a crystallizer is preheated for at least two hours or more beforeprior to  
crystallizing to the blank of the bottle is started;  
loading a bunker is loaded with the uncryallized blank of the bottle;  
which is deliveringed to an blank horse's head via a conveyor belt;  
thensending a bottleneck portion of the uncryallized bottle blank is sent into a said  
crystallizer to heat itthe bottleneck portion at a high temperature and crystallize itthe bottleneck  
portion via an arbor transmission chain;  
at the same time, controlling the temperature of the uncryallized portion of the blank body  
is controlled, so that the uncryallized portion of the blank body it is not affected by the high  
temperature environment of the crystallizer at high temperature;  
discharging the polyester bottle blank having a crystallized bottleneck portion is discharged  
through an output blank horse's head;  
-and deliveringed to another conveyor belt to cool and shape the polyester bottle blankit.

6. (Amended) A method according to claim 5, wherein before a said bunker is loaded with

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the uncryallized blank, the temperature of the bottle blank is controlled by an arbor temperature controller; and, after the uncryallized bottleneck portion of the bottle blank is fed into the crystallizer, the temperature of the bottle blank is controlled by a bottleneck temperature controller.

7. (Amended) A method according to claim 6, wherein when a-said bunker is loaded with the uncryallized blank, the temperature, of the bottle blank is controlled in a range of 120–150°C.

9. (Amended) A method according to any of claims 5–8, wherein the crystallization time required for each bottle blank is controlled in a range of 90–120 sec.

10. (Amended) A method according to claim 5, wherein during while the bottle blank is cryallized in the crystallizer, the body portion of the bottle blank is protected free for the influence from an the high temperature environment of the crystallizer at high temperature by using a cooling partition.

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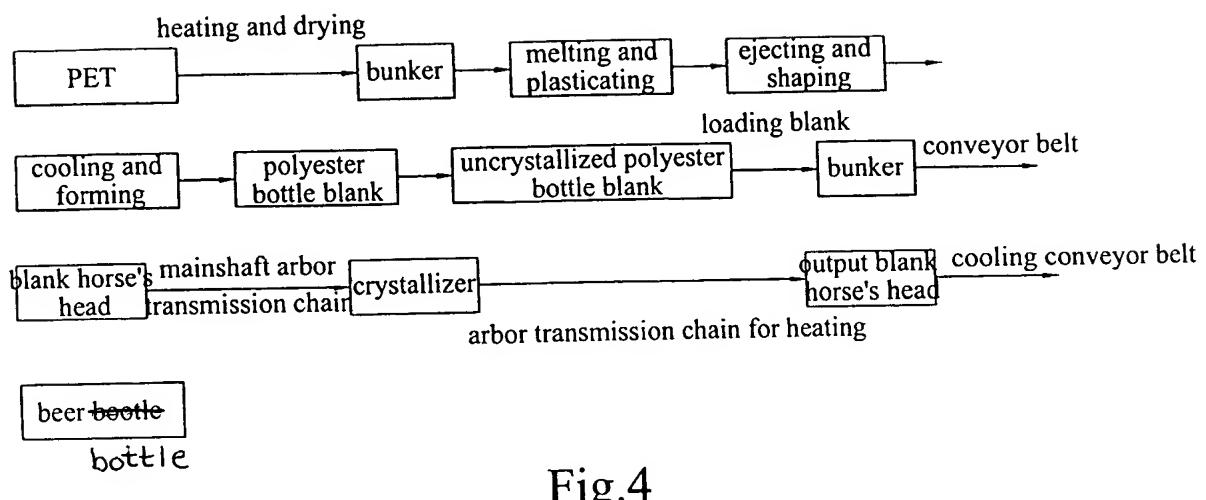


Fig.4

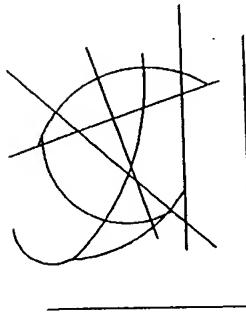


Fig.5

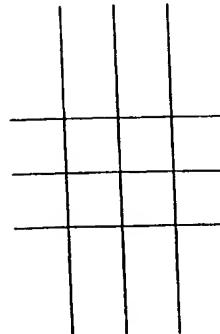


Fig.6

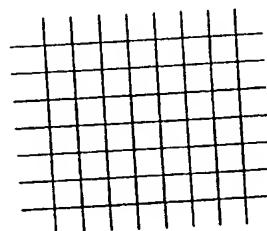


Fig.7